I. Amendments to the Specification

Kindly amend the Abstract of the Disclosure, as follows:

A fluid treatment system for placement in a flanged pipe fluid conveyance system includes ~~. The fluid treatment system comprises a flanged ductile iron pipe fitting. The ductile iron pipe fitting comprises~~: a first flanged opening and a second flanged opening in substantial alignment to define a flow axis aligned substantially parallel to a direction of fluid flow through the first opening and the second opening; and a third flanged opening comprising a first cover element. The first cover element has connected thereto at least one radiation source assembly comprising at least one elongate radiation source having a longitudinal axis substantially transverse to the flow axis. ~~In its preferred form, the~~ The fluid treatment system may be advantageously utilized to treat fluid such as water, e.g., municipal waste water, municipal drinking water and the like. The fluid treatment system ~~is particularly advantageous since it utilizes a standard ductile iron pipe fitting and thus,~~ can be readily "spliced" into existing piping systems. This facilitates installation of the system and also allows for a significant lowering of manufacturing costs of the system.

Kindly amend paragraph **[0028]** as follows:

[0028] Once fluid treatment system 100 is assembled, it may then be installed in an existing fluid conveyance system. Conventional fluid conveyance systems are constructed from materials such as ductile iron pipe fittings, polymer material and the like. Fluid treatment system 100 may be installed by removing a section of an existing fluid conveyance system to produce a flanged fluid intake and a flanged fluid feed (not shown). Flange plate 115 would then be aligned with the flanged fluid intake, and flange plate 125 would be aligned with the flanged fluid feed. Fluid type connections would be made in a conventional manner and fluid treatment system 100 would then be ready for operation in a conventional manner.

Kindly amend paragraph **[0019]** as follows:

[0019] Flanged ductile iron pipe fittings are generally known in the art and typically are available as "off the shelf" type products. ~~See the Appendix attached hereto for more~~ See the following for more information on flanged ductile iron pipe fittings commercially available from U.S. Pipe. Ductile Iron Flanged Pipe With Threaded Flanges and Flanged Fittings For Water and Other Liquids: Flanged pipe and fittings are typical components in rigid piping systems. Such systems are particularly suited for above ground installation in the following: water filtration plants, sewage disposal plants, wastewater treatment plants, pumping stations and industrial plants. U.S. Pipe gives special attention to such installations through its Customer Service Department. The underground use of the flanged joint is generally not recommended due to the rigidity of the joint. Unequal settlement or other stressing of such piping may result in excessive strain on the flanges or the pipe. Threaded flanged pipes are fabricated by threading plain end pipe, screwing threaded flange(s) on and machine-tightening them. The plain end and the flange are then faced to provide a smooth surface across the end of the pipe and the face of the flange. The Foreword of *ANSI/AWWA C115/A21.15 Flanged Ductile-Iron Pipe with Ductile-Iron or Gray-Iron Threaded Flanges* lists the required information and the options which if desired must be specified on the purchase order for flanged pipe, such as size and finished length. See the standard for more details. Unless otherwise specified, U.S. Pipe furnishes flanged pipe with: Ductile Iron Threaded Flanges; Cement mortar lining - standard thickness; Standard asphaltic coating inside and out; Special class 53 wall thickness, pressure class 350 for sizes 60" and 64" Bolt holes aligned per A21.15 Standard. Flanged joint accessories (bolts, nuts and gaskets) can be furnished by U.S. Pipe if so specified. Rubber gaskets, 1/8" thick or U.S. Pipe FLANGE-TYTE® Gaskets (4" through 64" size) are recommended for normal water or sewage service. When requesting prices for flanged pipe for carrying chemical solutions, complete information regarding the type of material to be conveyed, composition, concentration, pH, pressure and temperature should be specified. Ductile Iron flanged pipe is furnished in accordance with ANSI/AWWA C115/A21.15. Pipe barrels and flanges have a taper pipe thread (NPT) in accordance with B1.20.1, with thread diameters adapted to Ductile Iron pipe standard outside diameters. Ductile Iron pipe used for flanging are centrifugally cast in metal molds in sizes 3"-64" and meet all requirements of *ANSI/AWWA C151/A21.51 Ductile Iron Pipe, Centrifugally Cast. for Water*: Pipe for wastewater service may be furnished in accordance with *ASTM 746 Standard Specification for Ductile Iron Gravity Sewer Pipe*. Flanges conform to the chemical and physical properties specified for Ductile Iron fittings in *ANSI/AWWA C110/A21.10 Ductile-Iron and Gray-Iron Fittings, 3 in. through 48 in. (76 mm through 1,219 mm), For Water and ANSI/AWWA C153/A21.53*

Ductile-Iron Compact Fittings, For Water Service. Flanged pipe are furnished in the following maximum lengths: Sizes: 4"-42" - 17'6"; Sizes: 3", 48"-64" - 19'6". U.S. Pipe's Flanged Fittings are produced of Ductile Iron and conform to the applicable requirements for Ductile Iron fittings specified in ANSI/AWWA C110/A21.10 (3- through 48-in. sizes) and ANSI/AWWA C153/A21.53 (54-through 64-in. sizes). The flanges of the C110/A21.10 and C153/A21.53 Standards conform to the drilling and facing of ANSI B16.1 Class 125 flanges. This B16.1 Class 125 designation leads some to conclude that these AWWA flanges are only rated at 125 psi service which is not correct. The C110/A21.10 Standard flanges are rated for 350 psi operating pressure for 12 inch and smaller sizes and 250 psi operating pressure for 14 inch and larger sizes at ambient temperatures with at least a 2:1 factor of safety. Special gaskets such as U.S. Pipe's FLANGE-TYTE® Gaskets are used for operating pressures greater than 250 psi. (Flanges of Ductile Iron pipe and fittings meeting the requirements of ANSI/AWWA C115/A21.15 or ANSI/AWWA C110/A21.10 cannot be joined with Class 250 ANSI B16.1 flanges.) Face-to-face dimensions conform to a tolerance of ±0.12 in. for sizes 3-64 in. Threaded pipe and threaded flanges are individually fitted and the flanges are not interchangeable. The minimum class thickness for Ductile Iron flanged pipe to be threaded is specified in ANSI/AWWA C115/21.15 to be ANSI/AWWA C151/A21.51 class 53 for sizes up through 54 in. and pressure class 350 for 60 and 64 in. sizes. Flanged pipe can be furnished with greater wall thicknesses than special class 53 if so ordered. Weights shown are subject to a minus tolerance of not more than 10% for individual pieces. To obtain the weight of any short length of pipe, calculate the weight of the length from face to face of flanges and add the weight of two flanges. The gaskets and bolts to be used with flanged pipe and fittings should be selected by the purchaser with due consideration for the particular service and installation requirements.

Kindly delete the Appendix with prejudice or disclaimer of the subject matter disclosed therein.